

IN THE CLAIMS:

1. (Currently Amended) A modular wireless device comprising:

a shell that contains ~~non-wireless~~ electronic components, ~~at least one of which is including memory, with said memory containing system software, said system software having operating system software, software drivers and application software, with said operating software containing information concerning wireless communication, with the operating system software including a storage list including information identifying wireless services with which said application software may communicate;~~

a cartridge that contains ~~wireless components, at least one of which comes from the set of baseband and RF hardware~~ a transceiver for wireless communication; and

an interface that enables removably coupling together said shell with said cartridge and facilitates data communication between the shell and cartridge; said electronic components and said transceiver, said cartridge including a storage unit containing call-processing software to communicate with said operating system software in response to coupling together of said cartridge with said shell, a supported wireless service to which said transceiver may communicate, with said operating system software including a sub-routine to facilitate communication between said application software and said supported wireless service in response to receiving information from said call-processing software

~~a means for the shell to receive configuration information over the interface or for the cartridge to receive configuration information over the interface;~~

~~a mechanism that enables the shell to automatically respond to configuration information received over the interface or the cartridge to automatically respond to configuration information received over the interface; and~~

~~a means for the modular wireless device to configure its operation based on said configuration information.~~

2. Cancelled.

3. (Currently Amended) The modular wireless device as recited in claim 1 wherein the shell contains ~~at least one~~ a button, a display, and said electronic components further include a microprocessor ~~and the cartridge contains protocol stack software.~~

4. (Currently Amended) The modular wireless device as recited in claim ~~[[2]]~~ 1 wherein~~[[:]]~~ said system software includes code to identify, to said call-processing software, said wireless services, with said call-processing software including code to provide functionality to said system software to said supported wireless service upon determining said supported wireless service being outside of said wireless services by replacing said application software with replacement software

~~the cartridge further includes replacement software; and~~

~~the modular wireless device further includes means for transferring the replacement software to the shell; and~~

~~the shell further includes means to upgrade, augment, or replace the system software using the replacement software, thereby modifying the shell to have different behavior.~~

5. (Previously Presented) The modular wireless device as recited in claim 4 wherein;

the system software contains a first version number;

the replacement software contains a second version number; and

wherein the cartridge and shell have a means to exchange the first and second version numbers to determine whether the system software should be replaced.

6. (Currently Amended) A modular wireless device comprising ~~The modular wireless device as recited in claim 4 wherein:~~

a shell that contains electronic components including memory, with said memory containing system software, [[the]] said system software [[is]] being associated with a first network operator and ~~contains~~ containing a first identification number that uniquely identifies the first network operator and having operating system software, software drivers and application software, with said operating software containing information

concerning wireless communication, with the operating system software including a storage list including information identifying wireless services with which said application software may communicate;

a cartridge that contains a transceiver;

an interface that enables removably coupling together said shell with said cartridge and facilitates data communication between said electronic components and said transceiver, said cartridge including a storage unit containing call-processing software to communicate to said operating system software a supported wireless service to which said transceiver may communicate, with said operating system software including a sub-routine to facilitate communication between said application software and said supported service in response to receiving information from said call-processing software, said system software further including code to identify to said call-processing software said wireless services, with said call-processing software including code to provide functionality between said system software and said supported wireless service upon determining said support wireless service being outside of said wireless services by replacing said application software with ~~[[the]]~~ replacement software ~~eontains~~ containing a second network operator identification number that may be the same or different than the first identification number; and

~~wherein the cartridge and shell exchange the first and second network operator identifications to determine whether the system software should be replaced~~ a recognition mechanism, included in said cartridge, to determine whether said first and second identification numbers match with said code to provide providing said functionality in response to said recognition mechanism ascertaining said first and second identification numbers are different.

7. (Currently Amended) The modular wireless device as recited in claim 1 wherein ~~[[:]]~~ said application software includes code to instruct said operating system software to register said application software with said supported wireless service

~~the shell further includes a software application;~~

~~the shell has means for the software application to communicate a request for wireless communication services to the system software;~~

~~the system software includes means to store said application request;~~
~~the modular wireless device further includes means for the cartridge to send to the system software control information that contains the wireless communication services available to the cartridge; and~~
~~the system software has means to notify the software application of the availability of a wireless communication service in the cartridge,~~
~~whereby the software application can configure its operation according to the wireless communication services available in the cartridge.~~

8. (Currently Amended) The modular wireless device as recited in claim ~~[[7]]~~ 1 wherein ~~the system software maintains in memory a list or array of wireless communication services; and the said list or array describes the further includes information concerning services~~ ~~[[the]]~~ said shell is able to support based on the shell's hardware characteristics supports.

9. (Currently Amended) The modular wireless device as recited in claim 8 wherein the system software has means for expanding the ~~list or array stored in memory~~ to incorporate ~~[[new]]~~ information concerning additional wireless communication services.

10. (Previously Presented) The modular wireless device as recited in claim 8 wherein:

~~the cartridge has means of sending to the shell information that contains the wireless communication services supported by the cartridge; and~~

~~the shell has means of comparing this information to the list or array to determine which wireless communication services in the cartridge the shell is able to use.~~

11. (Currently Amended) The modular wireless device as recited in claim ~~[[2]]~~ 1 wherein:

~~the shell further includes a first said memory further includes a storage bin for storing subscriber information used by a communication network to identify one of the device~~ ~~[[or]]~~ and the user of the device;

~~the cartridge further includes a second memory~~ said storage unit further including an additional bin for storing subscriber information used by a communication network to identify the device or the user of the device; and

the modular wireless device further includes means for this subscriber information to be exchanged between the shell and cartridge.

12. (Currently Amended) The modular wireless device as recited in claim 11 wherein ~~at least one of the memory storage~~ [[bins]] bin and the additional bin is a SIM card.

13. (Currently Amended) The modular wireless device as recited in claim 11 wherein the information exchanged is used to determine which of the memory storage bin [[bins]] and the additional bin contain subscriber information.

14. (Currently Amended) The modular wireless device as recited in claim 11 further including a means for determining ~~whether~~ to use one of the subscriber information in the shell ~~[[or]]~~ and the subscriber information in the cartridge when both the ~~first and second memory storage~~ [[bins]] bin and the additional bin contain subscriber information.

15. Cancelled.

16. Cancelled.

17. (Original) The modular wireless device as recited in claim 11 wherein the first memory storage bin in the shell has means to store subscriber information related to more than one air-interface standard.

18. (Currently Amended) The modular wireless device as recited in claim 17 wherein the subscriber information in the ~~first memory~~ storage bin is displayed according to the air-interface standard it corresponds to.

19. (Currently Amended) The modular wireless device as recited in claim 11 wherein the cartridge has a means for obtaining the subscriber information in the ~~shell's memory~~ storage bin and communicating this subscriber information to a wireless network.

20. (Original) The modular wireless device as recited in claim 19 wherein the subscriber information contains data a wireless network needs to forward calls from a first phone number to a second phone number.

21. (Previously Presented) The modular wireless device as recited in claim 20 wherein the data is an executable that the wireless network can execute to forward calls from a first phone number to a second phone number.

22. (Currently Amended) The modular wireless device as recited in claim 12 wherein both ~~memory~~ storage ~~[[bins]]~~ bin and the additional bin are SIM cards; and
the SIM cards include user data; and
the modular wireless device includes means for synchronizing the user data in the SIM cards.

23. (Currently Amended) ~~[[The]] A~~ modular wireless device ~~as recited in claim 2~~
~~further including comprising:~~
a shell that contains electronic components including memory, with said memory containing system software, said system software having operating system software, software drivers and application software, with said operating software containing information concerning wireless communication, with the operating system software including a storage list including information identifying wireless services with which said application software may communicate;
a cartridge that contains a transceiver, to facilitate wireless communication, and a storage unit in data communication with said transceiver;
an interface that enables removably coupling together said shell with said cartridge and facilitates data communication between said electronic components and said transceiver, said storage unit containing call-processing software to communicate

with said operating system software, in response to coupling together of said shell and said cartridge, a supported wireless service to which said transceiver may communicate, with said operating system software including a sub-routine to facilitate communication between said application software and said supported wireless service in response to receiving information from said call-processing software;

a locking mechanism in the shell that prevents the shell from accessing the supported wireless communication services service in the cartridge; and
a means for unlocking the locking mechanism.

24. (Original) The modular wireless device as recited in claim 23 wherein the means for unlocking the locking mechanism consists of a user entering a pass code into the shell.

25. (Previously Presented) The modular wireless device as recited in claim 23 wherein the means for unlocking the locking mechanism consists of the shell obtaining a pass code from the cartridge.

26. (Original) The modular wireless device as recited in claim 23 wherein the locking mechanism is automatically activated when the cartridge is removed from the shell.

27. (Currently Amended) The modular wireless device as recited in claim ~~[[2]]~~ 1 further including:

a locking mechanism in the cartridge that disables wireless communication services in the cartridge; and
a means for unlocking the locking mechanism.

28. (Previously Presented) The modular wireless device as recited in claim 27 wherein the means for unlocking the locking mechanism consists of the cartridge obtaining a pass code from the shell.

29. (Original) The modular wireless device as recited in claim 27 wherein the means for unlocking the locking mechanism consists of a wireless network communicating a pass code to the cartridge.

30. (Original) The modular wireless device as recited in claim 27 wherein the locking mechanism is automatically activated when the cartridge is removed from the shell.

31. (Currently Amended) The modular wireless device as recited in claim ~~[[2]]~~ 1 wherein:

the modular wireless device contains means for exchanging information between the shell and cartridge that contains parameters used for data communications, whereby the cartridge can obtain data communication parameters from the shell.

32. Cancelled.

33. Cancelled.

34. Cancelled.

35. Cancelled.

36. (Currently Amended) The modular wireless device as recited in claim ~~[[2]]~~ 1 wherein the device has a mechanism that triggers automatic exchange of control configuration information over the interface when the cartridge is inserted into the shell.

37. Cancelled.

38. Cancelled.

39. (Currently Amended) The modular wireless device as recited in claim ~~[[7]]~~ 1 wherein the cartridge includes a software-defined radio that is able to reconfigure its hardware based on different types or modes of software in the cartridge.

40. (Previously Presented) The modular wireless device as recited in claim 31 wherein the cartridge includes a software-defined radio that is able to reconfigure its hardware based on different types or modes of software in the cartridge.

41. (Currently Amended) The modular wireless device of claim 1, wherein ~~the at least one wireless component is~~ said transceiver includes baseband hardware.

42. (Currently Amended) The modular wireless device of claim 1, wherein ~~the at least one wireless component is~~ said transceiver includes RF hardware.